

Figure 1A

1	GGGACCCGTGGCGCGCAGCCTGGTGAACCTGATCCTGGACCACTGCCTGGCGGGCG	60
61	GCGCGGTGCCAGATGCTGGCCCAGCGGAGGGCTGCTCTTAACTGGACGGCGGGCG	120
1	H L A Q P Q R L L F I L D G A D	16
121	ACGAGCTGCCCGCGCGCTGGGGGGCGCGGAGGCCTGGCGCTGACAGACCCCTTGAGGCGG	180
17	E L P A L G G P E A A P P T D P F E A A	36
181	CGAGCGGCGCGCGGCTGCTAGGCCTGGCTGCTGAGTAAGGGCTGCTGGCCACGGCGCTCC	240
37	S G A R M L G S L L S K A L L E P T A L L	56
241	TGCTGGTACCAACG	300
57	L V T Q R A A A P S R L Q G R C C S P Q	76
301	AATGCGCGAGCTGGCGGGCTTCCTCCGACAAGAACAAAGAAAGTATTCTACAAGTTCT	360
77	C A E V R G F S D K D K K K Y F Y K F F	96
361	TGGGGATGAGAGGAGGGCGAGCGCGCTACAGCTTCTGAAGGAGAACAGACCGCTGT	420
97	R D E R R A S R A Y R F V K H N E T L F	116
421	TGGGGCTGTGCTTCGTOGCCCTTCCTGTGCTGGATCGTGTGACCGCTGCTGGCCAGCG	480
117	A L S F M P E V C W M V T V L R Q Q S	136
481	TGGAGCTGGTGGGACCTGTGCGCGACGTCAGACACCACACGTCAGTGTACCTGCTTT	540
137	E L G P D L S F T S K T T T S M Y L L E	156
541	TATCACCAAGCGTTCTGAGCTCGCTCCGGTAACCGACGGCCCCGGTGCAGGGCGACC	600
157	I T S V L S S A P V A D G S R L Q G D L	176
601	TGGCAATCTGIGCGCGCTGGCGCGAGGGCTTCTGGACCCAGGGCGACTTTGCCG	660
177	R N L C H L A F E G V L G R R A Q F A E	196
661	AGAAGGAACCTGCAGAACCTGGACCTGGTGGCTCCAAAGTGCAGAGCTGTTCTCAGCA	720
197	K E L E Q L E L R G S K V Q T L F L S K	216
721	AAAAGGAGCTGICGGCGCTGGAGAGAGCTACCTACCTGGAGAGCTACCTGGCTGCTGGAGAGCT	780
217	K E L P G V L E T E V T Y Q F S T D Q S F	236
781	TCCAGGAGCTCTCGCGGCACTGCTACCTGGCTGGAGGACGGCGGGCTGCCAGGACCG	840
237	Q E F L A A L S Y L L E I G G V P R T A	256
841	CGAGCTGGCGCTGGAGAGAGCTGGCTGGAGAGCTACCTGGCTGCTGGAGAGCTACCTGGCT	900
277	A G S V G T I L P G P A Q F H S H L V I	276

Figure 1B

Figure 1C

Figure 2A

HLRRS11 caspase_recruitment_protein cryopyrin Nucleotide_Binding_site	(1) MAGGAWGRLACIYLEKFEELIFEFOLIANKAHRSRSSGETPACFEETSGC (1) -MASTRCKLARYLEDEEDVDLWTFIMHEDYDQKGCIPLERGOTEEADH (1) ---MGFNLQALLEQSODELSKFRYLITTFSEAHLOKIPHRREVDAKDG	51	100
HLRRS11 caspase_recruitment_protein cryopyrin Nucleotide_Binding_site	(1) MEVSYIIVAQYGEQRWDLAIFTWEGSISGACQEGAGHSFCFPYSF (51) VDLATLIMIDENGEEKAWAMAWWIFAAINRDLYEKAHRDEPFWCSDNAEN (47) KQLEVETPTTHCDSYWVEMASLQVEFKHMRMISERAPDEVFEAALKSFM	51	100
HLRRS11 caspase_recruitment_protein cryopyrin Nucleotide_Binding_site	(1) SEPHLGSPSQTSTAVLMPWIHELPAGCTQGSERRVLEQLEDTSGREWHE (101) SN----- (97) RK-----	101	150
HLRRS11 caspase_recruitment_protein cryopyrin Nucleotide_Binding_site	(1) ISASHLYQALPSSPDHESPSQESPNAPTSTAVLGSWGSPPCDSLAFPEQH (151) STVICCGEDS (102) DLSLGITR- (99) -----	151	200
HLRRS11 caspase_recruitment_protein cryopyrin Nucleotide_Binding_site	(1) ----- (201) APGTQWFLDEETSGIYYTEIFERERESEKGRPPWAAVGTFQCHSSLOP (111) DEREWMCILEYSPRISICFMKEDYRKEKRYVRSRFQCIIEFNEELGESV (107) HERPPLDVEMLERFFCEAQDEKDNRCRYILKTKFREMWSWGDSDHEQV	201	250
HLRRS11 caspase_recruitment_protein cryopyrin Nucleotide_Binding_site	(1) ----- (251) RHHHPWEPNVRESLCSTWPWNEDFNQPFITVLLLQLRPHPRSCQDPLVFRSW (161) SLMKPYTFLLELIFERHSQHREQELLAIGHTPTCESPV----- (157) MAERYHMLIPESNPR-----	251	300
HLRRS11 caspase_recruitment_protein cryopyrin Nucleotide_Binding_site	(1) ----- (301) PDYVFENFGHLEIIRDIFGPGLDTQEPRIVLLOGAAGIGHSFLAROVKEA (199) -----SPIKMELLFDPPDEHSEPVHTVVEQGAAGIGHSFLAROMILD (172) -----VPPGFPSYTWWLYCPAGLWTTLAQKLELD	301	350
HLRRS11 caspase_recruitment_protein cryopyrin Nucleotide_Binding_site	(1) ----- (351) WGRGOLYGFQHQHVEYFSCRELAKSKVVSLAEELIGKSTATIAPAFQFIS (241) WASCTEYCFEDDLEIIEHPEVSLVTQRSIGDLMSCCDENPTEHKLVE (202) WAEDNLIHK-EKSAEVLSCFELSRLGPCSEAEIVFRDWPELQDDEEHHLA	351	400
HLRRS11 caspase_recruitment_protein cryopyrin Nucleotide_Binding_site	(1) ----- (401) QPAQFLFLEGACDFP-AIGGPEAAPCTEPFEASGARVLCGELSHALIP (461) RPEPILFPLGCVFEPWVLCPSSELCLHESQQPADALGSEIGLTILE (241) FPPSILFLMGGFLCQGFDEHGPGLTDWQFAERGDISSCIEFKEIP (201) CAPKILFVIDGFLFEGAPGAIPEDIDGEWEKFKPVPVLLSSENFVMLP	401	450
HLRRS11 caspase_recruitment_protein cryopyrin Nucleotide_Binding_site	(1) ----- (451) QALLIVTPAAAPGRCLGRCSPQCAEVHGSDKDKKIKTFKFRPDEPRP (451) EASFSPIIARTTAQNQIPSLEQAPWVWVLGSESSSRHETIETRFTTEFCP (341) EASLIIITEPVVALEKQHEDHFRHETIIGFSEAKRTEIFKESLCEAQ (301) KAAALIVTPPRAIDRIDEAPEPIYIRFECLEEDKRANSLRHKGEDCP	451	500
HLRRS11 caspase_recruitment_protein cryopyrin Nucleotide_Binding_site	(1) ----- (501) ERAYPFVRENELTFALCEVPFVQWVINGTVLPGQELGRDLSRDSKTTDSV (561) IAPRFLVPSNKELWALGCLPWNSLACTACMQMKRKETLTSMTTITL (521) FAASLIIQGENEVLTMGIPLNKWCIVCTQKQOMESCKS1AQSKEITAV (581) MRAPFLMRSNAALPQKQAPAVCWVCTLNLQMEKGDPWVFCITTRFGL	501	550
HLRRS11 caspase_recruitment_protein cryopyrin Nucleotide_Binding_site	(1) ----- (601) YLFITSVLSSAPVADGPNPLGQRLRQLCBLAPEGVGLGRRA,BAEKELEQ (661) GLHYLAQALQA,P-----LGQPOLRQLCSSLAAEGIWKQETLSEFDOLRKH (621) MVEFQSSLLQPRGGSGCNGLCAHNGLCSLAAADGIWNQKLFESPDLRNH (581) FPLFQLOS(F)-----OGAALLEGALR,ESILLAAGQGLWAQTSVLRRECQELR	601	650

Figure 2B

HLRPS11
caspase_recruitment_protein
cryopyrin
Nucleotide_Binding_Site

(202) ERGRGSKVOTLFLSKKEIFGVLETEVTVQFIDQSFQEFLAALSYLEEDGGV
(591) GLDGAIISTFKKG--IIQEHPIPLSYSFIHLCFQEFFAAAMSIVLEDEER-
(491) GLCKADVSASFVN-LFQKEVDCEKFVSPFHMTFQEFFFAMYFLLEEEKE
(446) GVQESDLRLFEDGQ-ILEQDRVSKGCYSFIHLSFQQFLTAFLYTLKEEEE

651 700
(150) PRTAAGG-----VGTLLRGDAQPHSHIVLTTTRFLFGLLSAERMRD
(64) -----GRGFHNSNIIIDLEKTIEAYGINGLEGASTTRFLGLSDEGERE
(546) GFTNVPGSFLKPLPFDVTVLLEN:GKFEKGYLIFVVRFLEFGIVNCERTSY
(496) EDRDGHHTWIG---DVCKLLSGVERLRNPDLIQAGYYSGFLINERRAKE

701 750
(193) IERHEGCMVSEVERQEAELPNVOGLGQGCPGVAFEVTEGAKCLEDTEEPHE
(496) MENIFHCRILSC--GRNLIMQAVPSL-----QLLLOPHS-----
(190) LEFKLSCCKISQ-CRLEELKMWIEV-----AKAKKLDIQPSCQ
(431) LEATFGCRMSPDPDKQELLRCDIS-----KGHRSTVTDLQ

751 800
(143) EPEGEEEPNNPFLELLYCLYETQEDA:FYRVALCRFPPELAQRVVRHCFMDVAV
(160) -----LESHEHCLYETRNK:FLTQVMAHFFEMGMG--VEIDTMELV
(174) -----LEEFYCLYEMQEEDFVQRAMLYFPKIEIN--LTTFMDHMV
(175) -----ELIGCLYEQEEELVKVMAQFHEISLH--DNAVENV

801 850
(160) LSGCVPVCFACPAEHLISDFLVAACDPEKKGLGFLQASLGGSQ-----
(164) CTCFCIKPSPRHVKHICLLEGRQHESTWNSMSMVIIPRWVPVTDTWQIILES-
(646) SSFCIENCHPNEESLGLFLHNMPYEEEEEEHGRHLDMVOCVLESSHAA
(611) SSFCVRRHCRNLDQMSLQVIKENLPENNTASESDAEVERSODDQHMLPFWT

851 900
(174) -----
(175) -----
(146) QSHGLVMSH-----
(166) DLSGSIENSNPKDEMGLAINDSFLSEASIVFILEQIAASDICHLQFVVFKNIS

901 950
(126) -----GTTKQFASLLHPLFQAMTDPQDQHLSSET
(111) -----VKVTRNIPEDLDSNSLHSIAVKSLSCKTLRRPQG:LETLM
(710) SSFQORGIFSVLSTSQSLTEDLSSNSLSDPGMRVLCETLQHPCCNIRHLW
(711) PADAHENILCALEGHHTVTYLTLLGNWIDDMFFALCEVLRHPECNIRLW

951 1000
(118) -----
(164) LSHOKLPPDAVCDLSEALPAAAPALTELGLHNFLSEAGLRMISEGLAWPQ
(164) LAGCGGLTAEDKDLAFLGRANOTLTEDLSSHNVLMDAGAKHLLQQLRQPW
(715) DQFCGLSHEC-----ISLVEESNOKEVELLSENALGEGFGLRLGVCKHLLW
(716) LVSCISATTQQWADLSLALLEVNDLSLTCVNLSDNELLDGAKLLTTLHRPH

1001 1050
(118) CRVQTVIVQQLPDPQ-FGLQYLVGMIFQCSPEALTTLDDISGQCPAPMWTYC
(164) CQHQRLALVSCGETSIECCQDLASVLSAQSFSIKELDLQINNEDWGVRLC
(119) QMKKLWLWVSCGTSACCQDLASVLSTSLSLTFLYVGENDGDSGVAILC
(117) QFLQRLALENCHTEANCKDLAAVLLVSPFLTHLCLAKNPICNTGVKFLC

1051 1100
(167) AVEHQGCGEQLTSEASVELSEQ:IQELQCVKRAFFDEVTHIAEDGHPO
(144) EGELRHPACKLIFLGHIDQTTLSDENHROELPALEQEEPKQLLIFSPFPPSVMV
(175) EFAKNPQCNLQKLGIVNSGLTSVWCSASSVLISTNQNLTHTYLRGNTLG
(562) EGLRYPECKLQTDIWNCDITSLQCLITKLLQEKSSLLCDIGCHNIG

1101 1150
(617) PPKELISTF-----
(994) PIEGLDTGEMENSTSSLKRQRLG-DERAASHWAQANLKLEDWSKIFPIAEI
(925) KCIKLLCEGLHPECKLQLELNLNLNTSHCWDLSTLLTSQSRLKLSI
(912) RGMKFLCEALRFLQNLRLQWLWGCSITPPFSCEDLCSALSN-QSIVTLDL

1151 1200
(606) -----
(1044) AEESSPVVVPVELLCVPSPASQCDLHTKPLGTDDFWGPTGPATEEVVDK
(975) GGN---DLGDIGVMMFCEFLKQCSCLQNLGLISEMYFNYETKSALETLOE
(961) GGN---PLGSSGVMLFETLTCSGTEFTEPLFIDDFDNLKLEEEIE

Figure 2C

HLRRSII caspase_recruitment_protein cryopyrin Nucleotide_Binding_site	1291 (626) ----- (1094) E FNLRYR H PVAGSYRWPNNTGLC V VREAVTVEIEFCVWDQFLGEINPQH (1012) E FPE T V FEPSW----- (1008) K NBOLIIDTEKHHFWAERPSSHD M I-----	1250
HLRRSII caspase_recruitment_protein cryopyrin Nucleotide_Binding_site	1291 (626) ----- (1144) SWMVAGPLLDI A EPGAVEAVHLPHFVALQGGHVDTSLFQVAHFKEEGML (1035) ----- (1034) -----	1300
HLRRSII caspase_recruitment_protein cryopyrin Nucleotide_Binding_site	1301 (626) ----- (1194) LEKPARVELHHIVLENPSFSPLGVLLKM1HNALRF1PVTSVVLLYHRLHP (1035) ----- (1034) -----	1350
HLRRSII caspase_recruitment_protein cryopyrin Nucleotide_Binding_site	1351 (626) ----- (1144) FFVTFHLYLIPSDGSIRKELELCYRSPGEDQLFSEFYVGHLGSG1RLQVK (1035) ----- (1034) -----	1400
HLRRSII caspase_recruitment_protein cryopyrin Nucleotide_Binding_site	1401 (626) ----- (1144) DHKDETLYWEALVHKGDLMPATTLLIPFACIAVPSFLDAPQLLHFVDQYRE (1035) ----- (1034) -----	1450
HLRRSII caspase_recruitment_protein cryopyrin Nucleotide_Binding_site	1451 (626) ----- (1144) Q1IARVTSNEVVLDDFLHGQVLISQPKYERPVIAENTRPSQMRFLFGLAQSWI (1035) ----- (1034) -----	1500
HLRRSII caspase_recruitment_protein cryopyrin Nucleotide_Binding_site	1501 (626) ----- (1194) RCKKDGLYQALKETHPHLIMELWEKGSKGKLLPLSS (1035) ----- (1034) -----	1536

D0066 NP

Figure 3

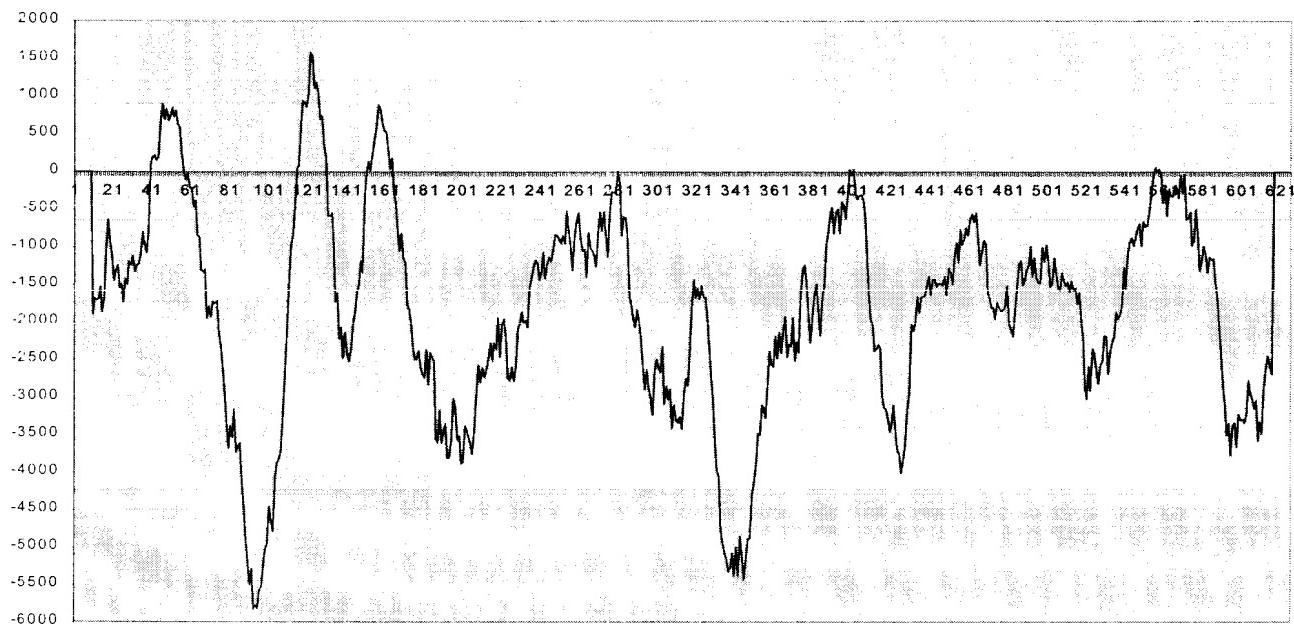
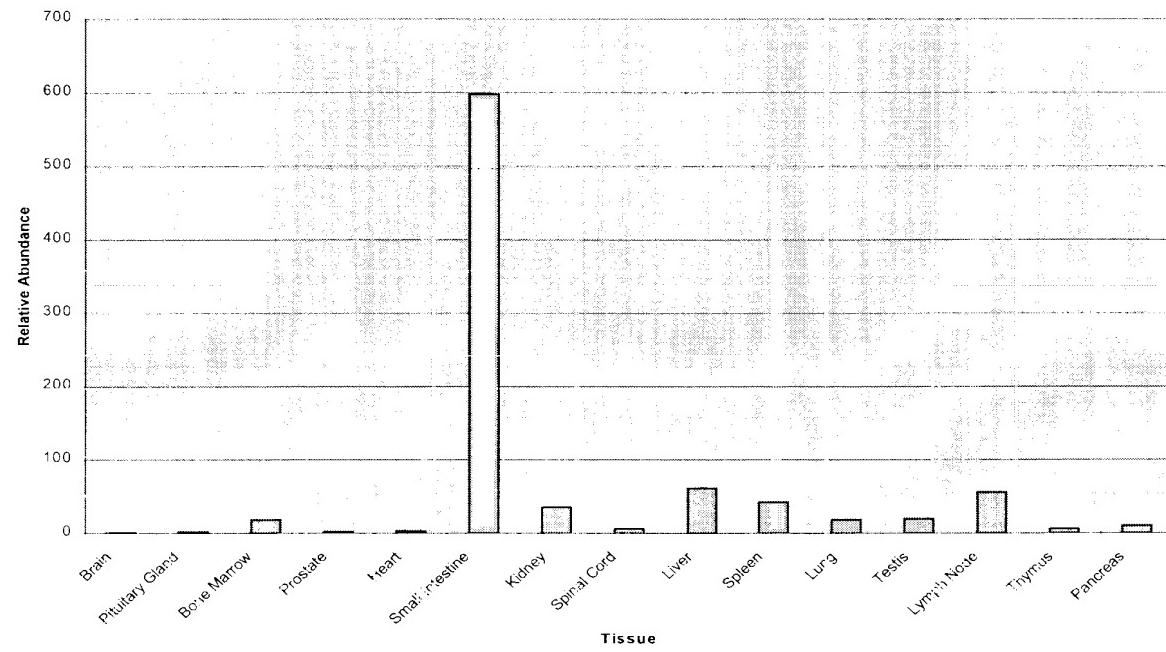


Figure 4

D0066 NP

Figure 5.

Protein	Genbank ID	Identities	Similarities
human caspase recruitment protein 7	gi 10198209	36.3%	44.0%
human nucleotide binding site protein	gi 10198207	35.0%	42.2%
human cryopyrin protein	gi 17027237	35.7%	46.0%